

Title (en)

DOUBLE CLAD OPTICAL FIBER WITH RARE EARTH METAL DOPED GLASS CORE

Title (de)

OPTISCHE FASER MIT DOPPELMANTEL UND EINEM MIT SELTENEN ERDMETALLDOTIERTEM GLASKERN

Title (fr)

FIBRE OPTIQUE A GAINÉ DOUBLE A AME EN VERRE DOPEE PAR DES TERRES RARES

Publication

**EP 1708971 B1 20150610 (EN)**

Application

**EP 05722408 A 20050111**

Priority

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- US 53837204 P 20040120

Abstract (en)

[origin: US2005158006A1] An optical fiber comprising: (i) a silica based, rare earth doped core having a first index of refraction  $n_{1</SUB>1</SUB>}$ ; (ii) a silica based inner cladding surrounding the core having a second index of refraction  $n_{2</SUB>2</SUB>}$ , such that  $n_{1</SUB>1</SUB>}>n_{2</SUB>2</SUB>}$ ; (iii) a silica based outer cladding surrounding the inner cladding having a third index of refraction  $n_{3</SUB>3</SUB>}$  such that  $n_{2</SUB>2</SUB>}>n_{3</SUB>3</SUB>}$ , wherein inner cladding diameter is at least 125  $\mu\text{m}$ .

IPC 8 full level

**C03C 13/04** (2006.01); **H01S 3/067** (2006.01)

CPC (source: EP US)

**C03C 13/046** (2013.01 - EP US); **H01S 3/06708** (2013.01 - EP US); **C03B 2201/10** (2013.01 - EP US); **C03B 2201/12** (2013.01 - EP US); **C03B 2201/28** (2013.01 - EP US); **C03B 2201/31** (2013.01 - EP US); **C03B 2201/34** (2013.01 - EP US); **C03B 2201/36** (2013.01 - EP US); **C03B 2203/04** (2013.01 - EP US); **C03B 2203/10** (2013.01 - EP US); **C03B 2203/12** (2013.01 - EP US); **C03B 2203/23** (2013.01 - EP US); **C03B 2203/32** (2013.01 - EP US)

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